



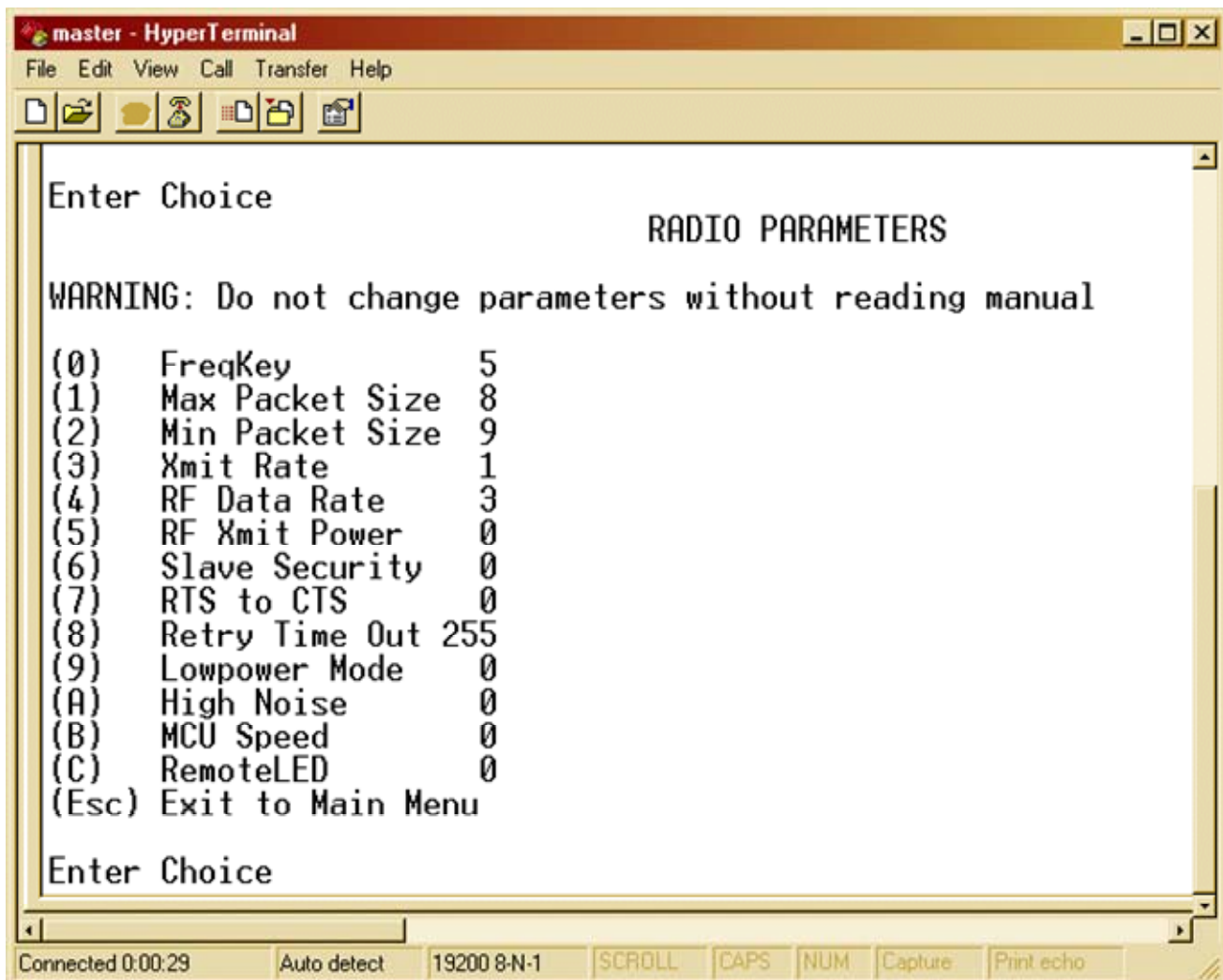
Application Note #5459

Remote LED Description

January 18, 2006

Functional Description

The remote LED option allows the user to monitor the status of the LED's through the diagnostic port. This feature is available as of firmware version 2.20 for the FGR series, and 3.23 for the I series. The remote LED option is found as option C under the Radio Transmission Characteristics menu (option 3 from main menu). There are three allowable values for Remote LED: 0, 1 and 2. Set to 0, only the LED's on the board are active. Set to 1, the LED's on the board are active, and the remote LED's are activated. Set to 2, only the remote LED's are active.



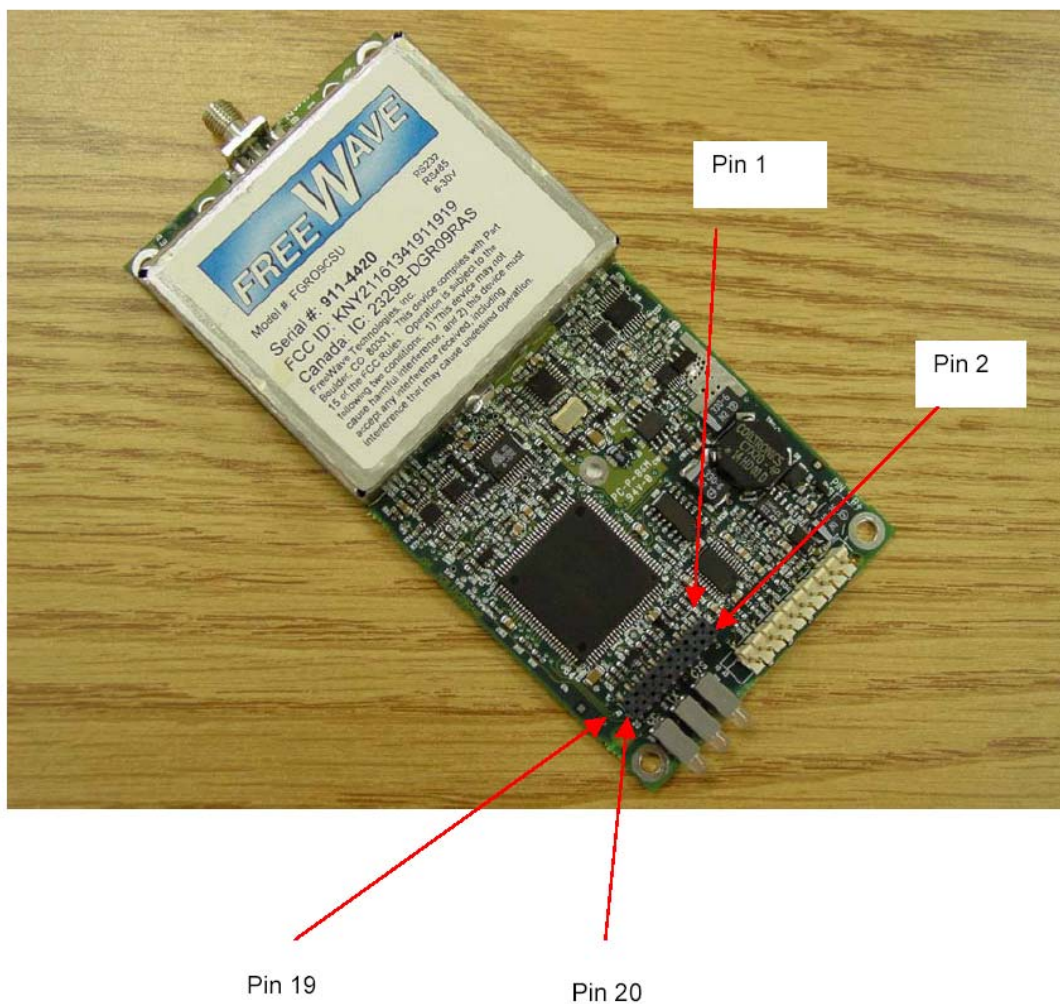
Pin Descriptions

There are five pins on the diagnostic connector used for remote LED operation. The table below describes the function of each pin. The actual status of the LED based on the values of the pins is shown in the following table.

Pin	Usage
12	Tx LED
15	CTS LED
16	
17	CD LED
18	

TTL levels of diagnostics port pins					CD LED status	CTS LED status	Tx LED status
18	17	16	15	12			
0	0	0	0	0	Off	Off	Off
0	0	0	0	1	Off	Off	Red
0	0	0	1	0	Off	Red	Off
0	0	0	1	1	Off	Red	Red
0	0	1	0	0	Off	Green	Off
0	0	1	0	1	Off	Green	Red
0	0	1	1	0	Off	Off	Off
0	0	1	1	1	Off	Off	Red
0	1	0	0	0	Red	Off	Off
0	1	0	0	1	Red	Off	Red
0	1	0	1	0	Red	Red	Off
0	1	0	1	1	Red	Red	Red
0	1	1	0	0	Red	Green	Off
0	1	1	0	1	Red	Green	Red
0	1	1	1	0	Red	Off	Off
0	1	1	1	1	Red	Off	Red
1	0	0	0	0	Green	Off	Off
1	0	0	0	1	Green	Off	Red
1	0	0	1	0	Green	Red	Off
1	0	0	1	1	Green	Red	Red
1	0	1	0	0	Green	Green	Off
1	0	1	0	1	Green	Green	Red
1	0	1	1	0	Green	Off	Off
1	0	1	1	1	Green	Off	Red
1	1	0	0	0	Off	Off	Off
1	1	0	0	1	Off	Off	Red
1	1	0	1	0	Off	Red	Off
1	1	0	1	1	Off	Red	Red
1	1	1	0	0	Off	Green	Off
1	1	1	0	1	Off	Green	Red
1	1	1	1	0	Off	Off	Off
1	1	1	1	1	Off	Off	Red

FGRO9 Series Radio Board



Remote LED function requires 1 Kohm resistor in series for current limiting